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National Lab Day

Lectures

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Montana State University-Billings

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Montana State University Billings



Energy-Related Programs

- University Campus: Current Enrollment 2691
 - Biological and Physical Sciences 165
 - University Campus-Chemistry 100% of 2018 graduates employed in-field, average salary \$60,000
 - Phillips 66 internship - analytical chemistry in petroleum manufacturing process
 - Energy Labs - analytical chemistry of environmental samples



Energy-Related Programs

- City College: Current Enrollment 1725
 - Process Plant Technology and Energy Technician 57
 - 91% of PPT 2018 graduates employed in-field, average salary \$68,000
 - Industrial fabrication skillset: tools, craftspeople, operators.
 - Exceptionally strong relationship with industry partners: ONEOK, ExxonMobile, Phillips 66 sponsor internships and scholarships.
 - Instrument and Electrical Technician program new Fall 2019 responds to demand from industry.



Research

- City College
 - MREDI-funded alternative fuels furnace design, fabrication, and testing
 - Future Directions
 - Immersive Technology - 3D immersive simulators for authentic training and increased operator competency
 - Agricultural (straw) or consumer (plastics) byproducts for fuel
 - Combustion device improvement including residential pellet stoves for distressed fuels
- University Campus
 - MREDI and INBRE funded Superfund cleanup-carbon tetrachloride remediation
 - Future Directions
 - Collaboration between Botany and Chemistry, synchrotron spectroscopy for tomography of plants.

